

*In the Claims:*

1. – 28. (Canceled)

29. (Currently amended) A method for producing a homozygous stem (HS) HS cell depository, wherein each HS cell that produces a cell line of ~~immunotyped homozygous stem (HS) cells that~~ are has alleles that are homozygous for the a Major Histocompatibility Complex (MHC) haplotype, haplotypes from multiple donors comprising:

(a) selecting donors;

(b) determining the ~~immunotype~~ MHC haplotype of each donor;

(c) mitotically activating non-fertilized female post-meiosis I diploid germ cells obtained from each donor to develop multiple blastocyst-like masses, each of which contains an inner cell mass (ICM) that is homozygous for a particular ~~immunotype~~ MHC haplotype, wherein the non-fertilized female post-meiosis I diploid germ cells are activated by calcium ionophore and sham intracytoplasmic sperm injection (ICSI);

(d) isolating HS cells from the ICM obtained from each donor;

(e) culturing the isolated HS cells to obtain HS cell lines;

(f) determining the ~~immunotype~~ MHC haplotype of each HS cell line; and

(g) cataloging the ~~immunotype~~ MHC haplotype of each HS cell line obtained in (e).

30. (Canceled)

31. (Previously amended) The method of claim 29, wherein the donors are mammalian.

32. (Original) The method of claim 31, wherein the donors are human.

33. (Original) The method of claim 31, wherein the donors are non-human.